CLAIMS

We claim:

1. A system for using eye gaze to control a scroll rate
of information presented on a display, comprising:
    a display for displaying scrolling information;
    means for monitoring a gaze position on said
display relative to an anchor position;
    control means for adjusting a speed of said
scrolling information if said gaze position deviates
from said anchor position.

2. A system for using eye gaze to control the rate of
information presented on a display as recited in claim
1 wherein said scrolling information scrolls from a
bottom of said display to a top of said display and
    wherein said control means increases said scroll
rate if said gaze position moves below said anchor
position and decreases said scroll rate if said gaze
position moves above said anchor position.

3. A system for using eye gaze to control the rate of
information presented on a display as recited in claim
2 wherein said control means reverses scroll direction
if said gaze position moves near said top of said
display.

4. A system for using eye gaze to control the rate of
information presented on a display as recited in claim

3   1 wherein said scrolling information scrolls from a top
4   of said display to a bottom of said display.

1   5. A system for using eye gaze to control the rate of
2   information presented on a display as recited in claim
3   4 wherein said control means reverses scroll direction
4   if said gaze position moves near said bottom of said
5   display.

1   6. A system for using eye gaze to control the rate of
2   information presented on a display as presented in
3   claim 1 wherein said anchor position is horizontal line
4   at the center of said display.

1   7. A system for using eye gaze to control the rate of
2   information presented on a display as recited in claim
3   1 wherein said scrolling information scrolls
4   horizontally from a first side of said display to a
5   second side of said display.

1   8. A system for using eye gaze to control the rate of
2   information presented in a display as recited in claim
3   7 wherein said anchor position is a vertical line at a
4   center of said display.

1   9. A system for using eye gaze to control the rate of
2   information presented in a display as recited in claim
3   1 wherein said control means dynamically adjusts said
4   anchor position to the position of gaze dwell.

1   10. A system for using eye gaze to control the rate of
2   information presented in a display as recited in claim
3   7 wherein said control means reverses scroll direction
4   if said gaze position moves near said second side of
5   said display.

1   11. A method for automatically adjusting a scroll rate
2   of information scrolling on a display, comprising the
3   steps of:
4   defining an initial anchor position near a center
5   line of a display;
6   scrolling information across said display at a
7   scroll rate with new information appearing at a first
8   side of said display and disappearing at a second side
9   of said display;
10   tracking a gaze position on said display;
11   increasing said scroll rate if said gaze position
12   moves from said anchor position toward said first side
13   of said display; and
14   decreasing said scroll rate if said gaze position
15   moves from said anchor position toward said second side
16   of said display.

1   12. A method for automatically adjusting a scroll rate
2   of information scrolling on a display as recited in
3   claim 11 further comprising the step of:
4   reversing scroll direction if said gaze moves near
5   said second side of said display.

1   13. A method for automatically adjusting a scroll rate

2   of information scrolling on a display as recited in

3   claim 11 further comprising the step of:

4   dynamically adjusting said anchor position in

5   response to gaze dwell.

1   14.   A computer readable medium comprising software

2   instructions for automatically adjusting a scroll rate

3   of information scrolling on a display, said

4   instructions comprising the steps of:

5   defining an initial anchor position near a center

6   line of a display;

7   scrolling information across said display at a

8   scroll rate with new information appearing at a first

9   side of said display and disappearing at a second side

10   of said display;

11   tracking a gaze position on said display;

12   increasing said scroll rate if said gaze position

13   moves from said anchor position toward said first side

14   of said display; and

15   decreasing said scroll rate if said gaze position

16   moves from said anchor position toward said second side

17   of said display.

1   15. A computer readable medium comprising software

2   instructions for automatically adjusting a scroll rate

3   of information scrolling on a display as recited in

4   claim 14, said instructions further comprising the

5   steps of:

6   reversing scroll direction if said gaze moves near

7   said second side of said display.

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1     16. A computer readable medium comprising software
2     instructions for automatically adjusting a scroll rate
3     of information scrolling on a display as recited in
4     claim 14, said instructions further comprising the
5     steps of:
6          dynamically adjusting said anchor position in
7     response to gaze dwell.
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